

TN735 ET-6 Transportable Tactical Radio System Case

The ET-6 transportable tactical radio system case is a compact watertight polyethylene case. Any Daniels Electronics receiver, transmitter and 30 Watt power amplifier can be mounted inside for repeater or base configurations. The ET-6 supports analog and transparent P25 digital (clear or secure) repeat capability.



The ET-6 case includes the following:

- internal mounting frame for Daniels receiver, transmitter and 30 Watt power amplifier.
- soft grip handle and press and pull latches.
- interface connectors for RF and AC/DC power inputs (internal or external).
- internal "quick change" duplexer mounting capability.
- lightweight OTTO headset (A-HEADSET-01).
- 9 Amp 110 / 220 VAC power supply with battery backup
- front panel control interface

The following options are available for the ET-6 case:

- A-MIC-05 hand microphone compatible with the headset connector.
- A-PK-RELAY-02 Antenna Relay for base station operation.

There are two different versions of the ET-6 case:

- ET-6-M03-01 Standard external RF and power connectors.
- ET-6-M03-02 Internal stealth RF and power connectors

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The ET-6 transportable radio system comes with a front panel control interface with the following features:

- internal interface connectors for RF and AC/DC power inputs (for stealth appearance with the lid closed).
- LED indicators for receive, transmit, power and speaker power indication.
- Clear / Secure select switch and Clear Keys button for encrypted base capability.
- 16 position channel select rotary switch.
- speaker / headset select, 12 pin Hirose connector for headset, volume control knob and main power switch.
- DB25 auxiliary connector for direct connection to a Vega DSP-223 or IP-223 (or another external device).

The transportable radio case is 31.4" wide, 6.7" high and 18.2" deep, and weighs 28 lbs. fully equipped.

Frequency band	RF Power Output	Internal duplexer frequency separation
AM	1.0 - 3.0 Watts	No duplexer available
Lowband VHF	0.5 - 3.0 Watts	No duplexer available
Highband VHF	0.5 - 8.0 or 30 Watts	≥ 4.5 MHz separation
400 MHz UHF	0.5 - 8.0 or 30 Watts	≥ 5.0 MHz separation
800 MHz UHF	0.5 - 3.0 Watts	≥ 45 MHz separation

The ET-6 duty cycle and operating temperature is variable as follows:

Case Lid	Duty Cycle	Operating Temperature Range
Open	100%	-30°C to +60°C (Optional -40°C to +60°C)
Closed	100%	-30°C to +10°C (Optional -40°C to +10°C)
Closed	50%	-30°C to +40°C (Optional -40°C to +40°C)
Closed	10%	-30°C to +60°C (Optional -40°C to +60°C)

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The ET-6 case with the lid removed is shown in Figure 1. This shows how the Daniels receiver, transmitter and power amplifier are mounted inside of the ET-6 case.

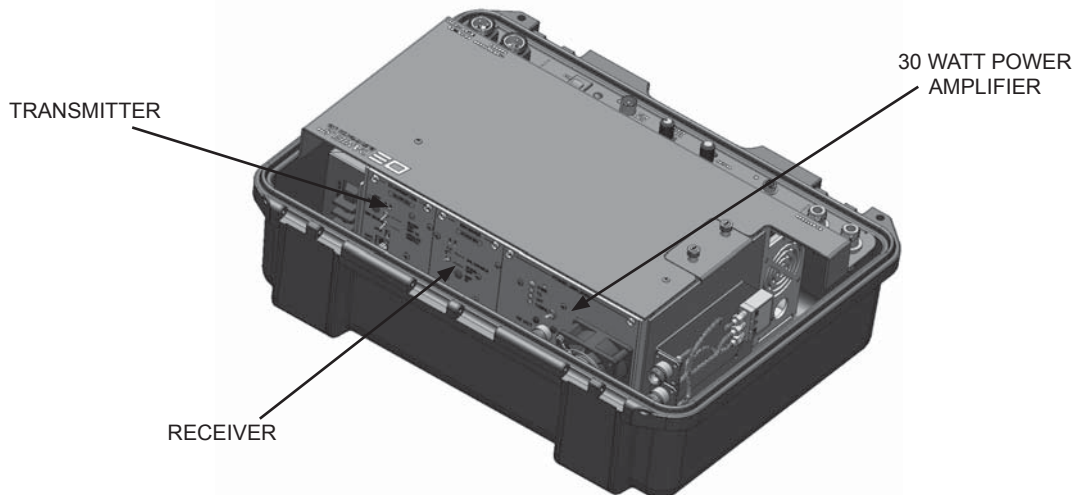


Figure 1: ET-6 case with case lid removed

The DB25 auxiliary connector pinout is as follows:

Pin	Function	Notes
7	Ground	
8	Transmitter CSEL0	Jumper JU5A installed to operate
9	Transmitter CSEL2	Jumper JU5A installed to operate
12	Receiver Balanced O/P 2	
13	Transmitter Balanced I/P 2	
14	Transmitter PTT I/P	
17	Transmitter Secure / Clear I/P	Pull to ground for Clear mode
20	+13.8 Vdc / Receiver COR	Jumper JU1A / Jumper JU1B
21	Transmitter CSEL1	Jumper JU5A installed to operate
22	Transmitter CSEL3	Jumper JU5A installed to operate
24	Receiver Balanced O/P 1	
25	Transmitter Balanced I/P 1	

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